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11. (New) A device for promoting wound healing in mammals, comprising:  
a negative pressure source;  
a pad for placement within a wound of a mammal;  
a drape for sealing enclosure of said pad and for maintaining a reduced pressure within said wound;  
a fluid communication means for communicating between said negative pressure source and said porous pad; and  
a heating element for actively heating said porous pad.

12. (New) The device according to claim 11 further comprising a cooling element for actively cooling said pad subsequent to heating said pad.

13. (New) The device according to claim 11 wherein said heating element is in contact with said pad.

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14. (New) The device according to claim 11 wherein said heating element comprises at least two sheets having a plurality of apertures and fixedly connected such that said apertures form a plurality of fluid channels.

15. (New) The device according to claim 12 wherein said cooling element comprises at least two sheets having a plurality of apertures and fixedly connected such that said apertures form a plurality of fluid channels.

16. (New) The device according to claim 14 further comprising a source of warm fluid for circulation through said fluid channels.

17. (New) The device according to claim 15 further comprising a source of cool fluid for circulation through said fluid channels.

18. (New) A device for promoting wound healing in mammals, comprising:  
a negative pressure source;  
a pad for placement within a wound of a mammal;  
a cover for maintaining a reduced pressure within said wound;  
a fluid communication means for communicating between said negative pressure source and said porous pad; and  
a cooling element for actively cooling said porous pad.

19. (New) The device according to claim 18 further comprising a heating element for actively heating said porous pad subsequent to cooling said pad.

20. (New) The device according to claim 18 wherein said cover is interposed between said porous pad and said cooling element.

21. (New) The device according to claim 18 wherein said cooling element comprises at least two sheets having a plurality of apertures and fixedly connected such that said apertures form a plurality of fluid channels.

22. (New) The device according to claim 19 wherein said heating element comprises at least two sheets having a plurality of apertures and fixedly connected such that said apertures form a plurality of fluid channels.

23. (New) The device according to claim 21 further comprising a source of cool fluid for circulation through said fluid channels.

24. (New) The device according to claim 22 further comprising a source of warm fluid for circulation through said fluid channels.

25. (New) A device for promoting wound healing in mammals, comprising:  
a negative pressure source;  
a pad for placement within a wound of a mammal;  
a cover for maintaining a reduced pressure within said wound;  
a fluid communication means for communicating between said negative pressure source and said porous pad; and  
a heating and cooling pad for affecting metabolic function at said wound, and positioned proximate said pad.

26. (New) The device according to claim 25 wherein said heating and cooling pad comprises at least two sheets having a plurality of apertures and fixedly connected such that said apertures form a plurality of fluid channels.

27. (New) The device according to claim 25 further comprising a source of warm or cool fluid for circulation through said fluid channels.